

PCC.II/REC. 49 (XXVII-16) ¹

**PUBLIC PROTECTION AND DISASTER RELIEF (PPDR) BASED ON INTERNATIONAL
MOBILE TELECOMMUNICATIONS (IMT) SYSTEMS**

The 27 Meeting of Permanent Consultative Committee II: Radiocommunications (PCC.II),

CONSIDERING:

- a) That Public Protection and Disaster Relief (PPDR) systems based on International Mobile Telecommunications (IMT) technology have a fundamental role to play to respond with efficacy and efficiency to public, national and international objectives for PPDR;
- b) That many administrations wish to promote inter-operability and inter-functioning among systems utilized for public protection and relief operations, both at the national level as well as for cross-border operations in situations of emergency and relief operations;
- c) That in resolves 1 of Resolution 646 (Rev. WRC - 15) “Public protection and disaster relief” administrations are encouraged to use harmonized frequency ranges for PPDR to the maximum extent possible, taking into account the national and regional requirements and also having regard to any needed consultation and cooperation with other concerned countries;
- d) That Recommendation ITU-R M.1036 provides guidance on the selection of transmitting and receiving frequency arrangements for the terrestrial component of IMT systems as well as the arrangements themselves, with a view to assisting administrations on spectrum-related technical issues relevant to the implementation and use of the terrestrial component of IMT in the bands identified in the RR and administrations may implement any of the recommended frequency arrangements, in all or in part, to suit their national conditions.
- e) That some administrations have made decisions to deploy broadband PPDR communications in the 700 MHz band, which is within the range 694-894MHz identified by WRC-15², and wish to promote harmonization given the inherent benefits,
- f) That much of the band 806-824 / 851-869 MHz is used for trunking systems in most countries in the Americas according to Recommendation PCC.III / REC. 28 (VI-96).
- g) That in some countries, Specialized Mobile Radio systems (SMR for its acronym in English or ESMR) use parts of the band 806-824 / 851-869 MHz, and that some of these systems are used to provide a similar cellular service;

¹ PCC.II-RADIO/doc. 4107/16 r3

² See Resolve 2 of Resolution 646 (Rev. CMR-15).

RECOGNIZING:

- a) The benefits of spectrum harmonization, such as a greater potential for interoperability, a broader industrial base and a larger volume of material resulting from economies of scale and greater availability of equipment; improved spectrum management and planning and greater cross-border coordination and circulation of equipment;
- b) That there are CITELE administrations that are already implementing broadband PPDR applications based on IMT systems, either in dedicated spectrum or shared spectrum with commercial networks;
- c) That Report ITU-R M.2291 provide details of the broadband capabilities of IMT, to meet the requirements of applications supporting PPDR operations;

TAKING NOTE:

- a) Of Report ITU-R M.2377 “Radiocommunication objectives and requirements for Public Protection and Disaster Relief (PPDR)”;

EMPHASIZING:

- a) That it is the prerogative of each government to define the most adequate approach and mechanism for the concession of spectrum licensees for deployment of IMT networks to satisfy the broadband PPDR needs;
- b) That the content of this Recommendation does not limit the evaluation of, and probable CITELE recommendation on, the harmonized use of other IMT frequency bands for PPDR purposes,

RECOMMENDS:

1. That CITELE administrations that wish to deploy broadband networks for Public Protection and Disaster Relief (PPDR) in parts of the frequency range 698-894 MHz consider the following frequency arrangements:
 - 1.1. 703-748/758-803 MHz (A5 arrangement of the most recent version of Recommendation ITU-R M.1036)
 - 1.1.1. In administrations that wish to define a particular frequency range for PPDR, it is recommended to preferably use the lower portion of this band.
 - 1.2. 758-768/788-798 MHz (A4 arrangement of the most recent version of Recommendation ITU-R M.1036).
 - 1.3. 807-824/852-869 (arrangements 1 and 2 in Recommendation PCC.II/REC. 35 (XX-12)).
2. To abrogate Recommendation CITELE PCC.II/REC. 41 (XXII-13).